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Chapter 8 Cell Libraries

About CFLHD Cell Libraries

The cell libraries currently in use at CFLHD contain standard drawings, figures, symbols, borders, etc. The cells contained within the cell libraries have been separated by the types of files that each cell will typically be placed. This, in most cases, will prevent the user from having to search through many cells to find the desired one. The cell libraries have also been broken into Metric and English versions of each cell library. This chapter contains information about these files including:

- Names of cell libraries
- Description of each cell library
- Locations of cell libraries, both internally and for external consultants

There are also helpful workflows for using these cell libraries placed throughout this chapter, including attaching cell libraries, using cell selector, and defining variables within MicroStation to make finding cells and cell libraries easier.

CFLHD Cell Libraries

At CFLHD there are currently 12 cell libraries for general use. The CFLHD cells have been divided into cell libraries based on the type of sheet the cells will most likely be used on. See the table below for a list of cell libraries and a short description of each. Click on the link button on the left-hand side to view a .pdf version of each cell library.

Cell Libraries		
Link	**File Name**	**Description**
⊕	drafting_metric.cel drafting_english.cel	Cells used for the final drafting stage, including cells such as terminators, north arrows, and bar scales.
⊕	erosion_metric.cel erosion_english.cel	Cells typically shown on erosion control plans.
	fedrecsigns.cel	
⊕	guardrail_metric.cel guardrail_english.cel	This cell library is temporary as these will be moved to the xsec cell library when the criteria files calling these cells have been updated.
⊕	guidesign_metric.cel guidesign_english.cel	Signing and striping cells specifically provided with the program guide sign
⊕	landscape_metric.cel landscape_english.cel	Cells typically shown on landscaping plans.
⊕	plan_metric.cel plan_english.cel	Cells typically shown in the overall plan view.
⊕	profile_metric.cel profile_english.cel	Cells for use on the profile view. Mostly drainage type cells for pipes shown in profile.
⊕	sign-stripe_metric.cel sign-stripe_english.cel	Signing and striping cells. CFLHD only, see guidesign.cel for signing and striping per the guide sign program.
⊕	title-maps_metric.cel title-maps_english.cel	Cells such as overall state maps, USDOT seals, and interstate markers, for use on title sheets.
⊕	utilities_metric.cel utilities_english.cel	Utility cells for the overall utility design file.
⊕	workzone_metric.cel workzone_english.cel	Cells such as barrels and barricades for detour plans, etc.
⊕	xsec_metric.cel xsec_english.cel	Cells for use by criteria in cross-sections.

Table 8-1: Cell Libraries

These cell libraries are to be used on all CFLHD projects and are located on the N:\ … at CFLHD and on the CFLHD web site at:

http://www.cflhd.gov/cadd/standard_Files/cell_libraries.zip

These cell libraries are not to be edited by anyone other than CFLHD CADD support. If you have suggestions for new cells, edits to existing cells, or general suggestions regarding the CFLHD cell libraries please address these to CFLHD CADD support as detailed in Chapter 1.

Workflow 1: Attaching CFLHD Cell Libraries

1. *For CFLHD consultants, begin by downloading the cell libraries from the web site listed above. Save the cell libraries to a directory where they will be accessible. Preferably a network directory specifically for the intended CFLHD project.*
2. *From the MicroStation drop down menu's, select Element>Cells.*

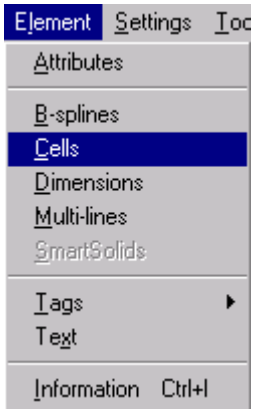

Figure 8-1: Element Cells Menu

3. *The cell library palette will now be accessible. Select File>attach, and navigate to the correct cell library. Once selected, the cells will be visible in the windows on the Cell Library palette.*

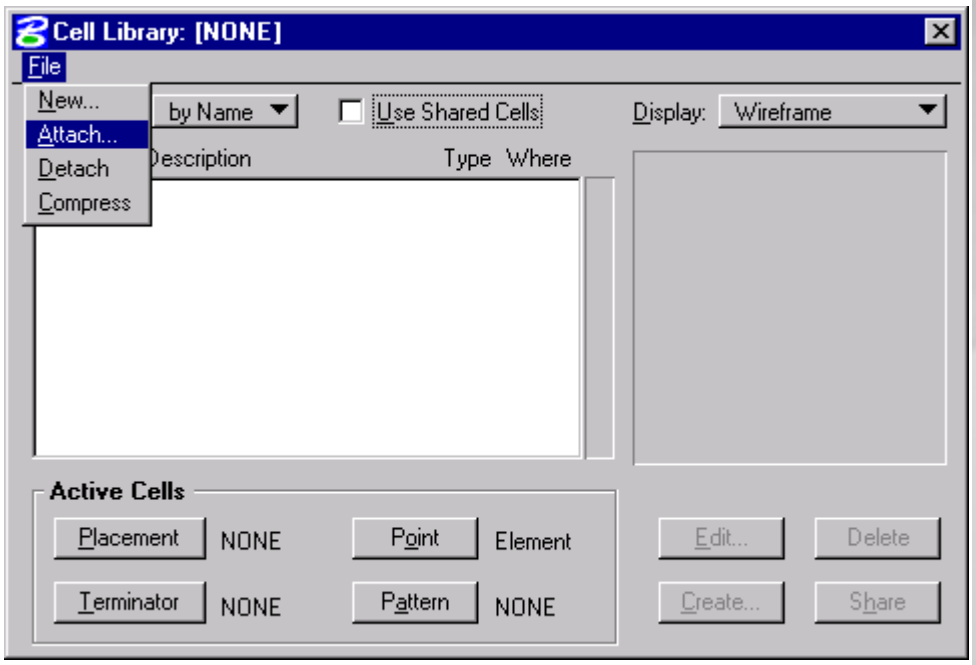

Figure 8-2: Attach Cell Library Menu

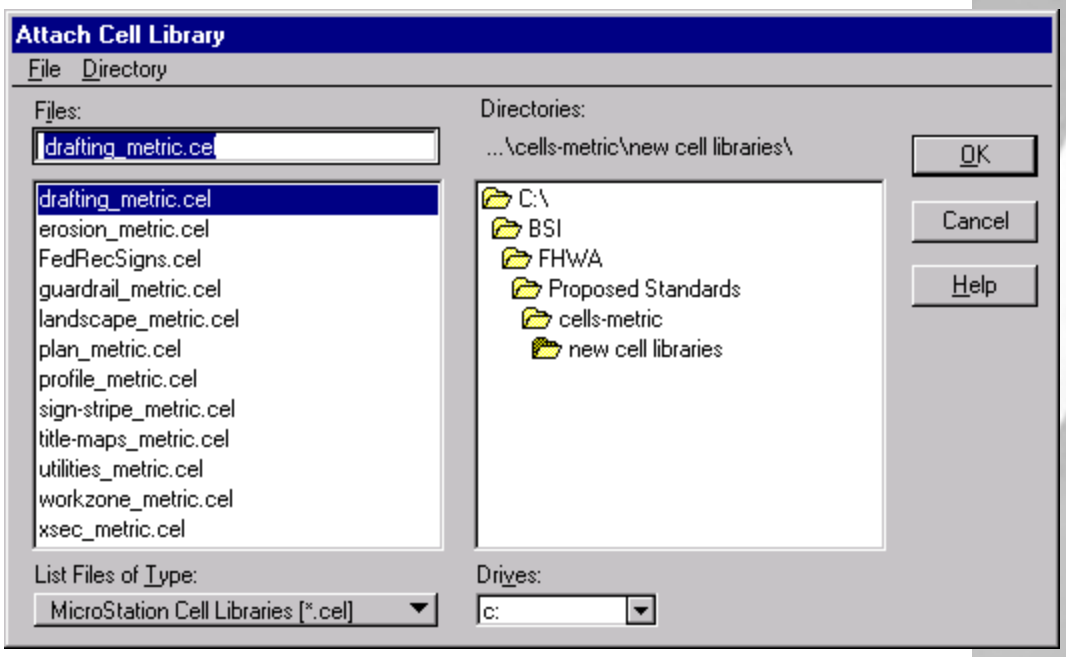

Figure 8-3: Attaching Cell Library

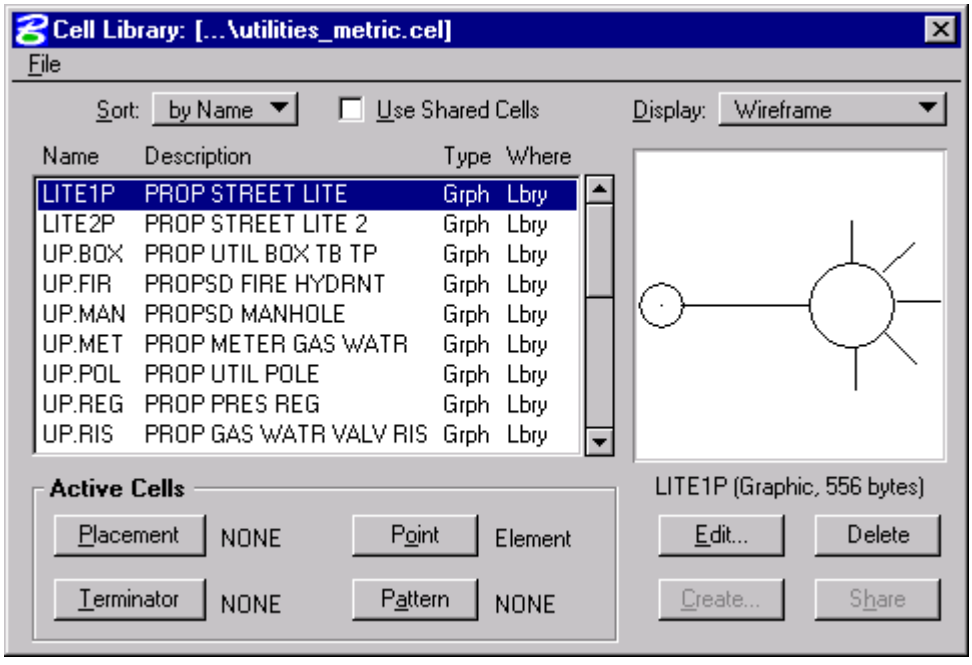

Figure 8-4: Cell Library Utilities

Project Specific and Personal Cells

There is often a need for an individual user to create cells during the course of a project for things such as:

- Creating standards notes to be used on multiple sheets.
- Copying information from sheet to sheet.
- Copying information for another user within the project.

While these are valid reasons for creating cells, they must not be placed within the CFLHD standard cell libraries listed above. In these cases, simply create a new cell library on your local machine and create the new cell there. Once the information has been used the temporary cell library may be deleted, or the temporary cells within the cell library may be deleted. See workflow 2 below, for information on creating new cell libraries.

Workflow 2: Creating a New Cell Library

1. ***Access the cell library palette as shown in Workflow 1.***

From the cell library palette, select *File>New*

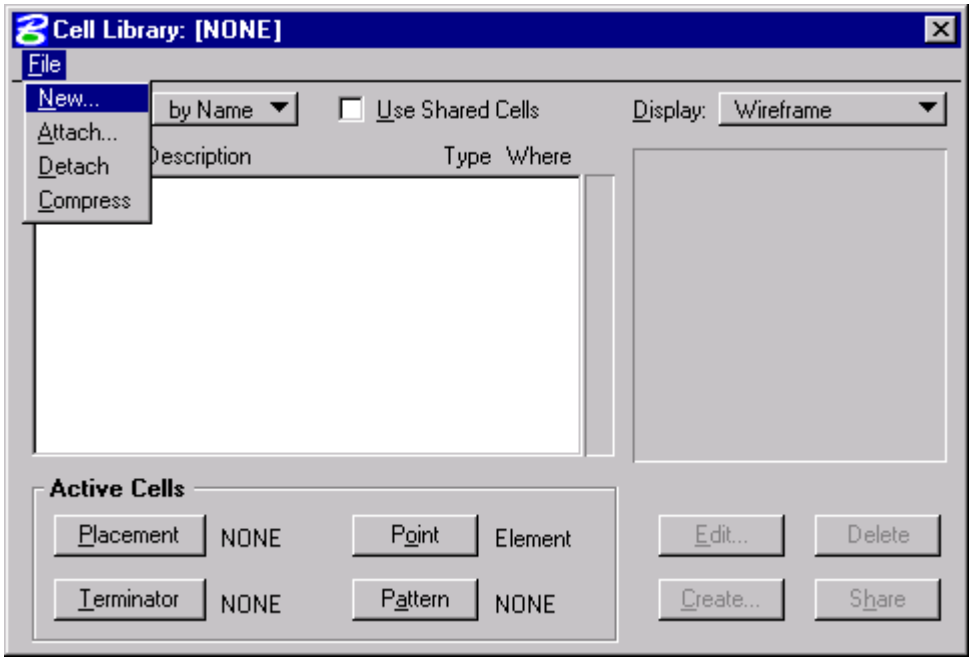

Figure 8-5: New Cell Library Menu

2. ***Pick a path to the directory where the cell library is to be created.***
3. ***Type in a name for the new cell library.***
4. ***Select the correct seed file.***

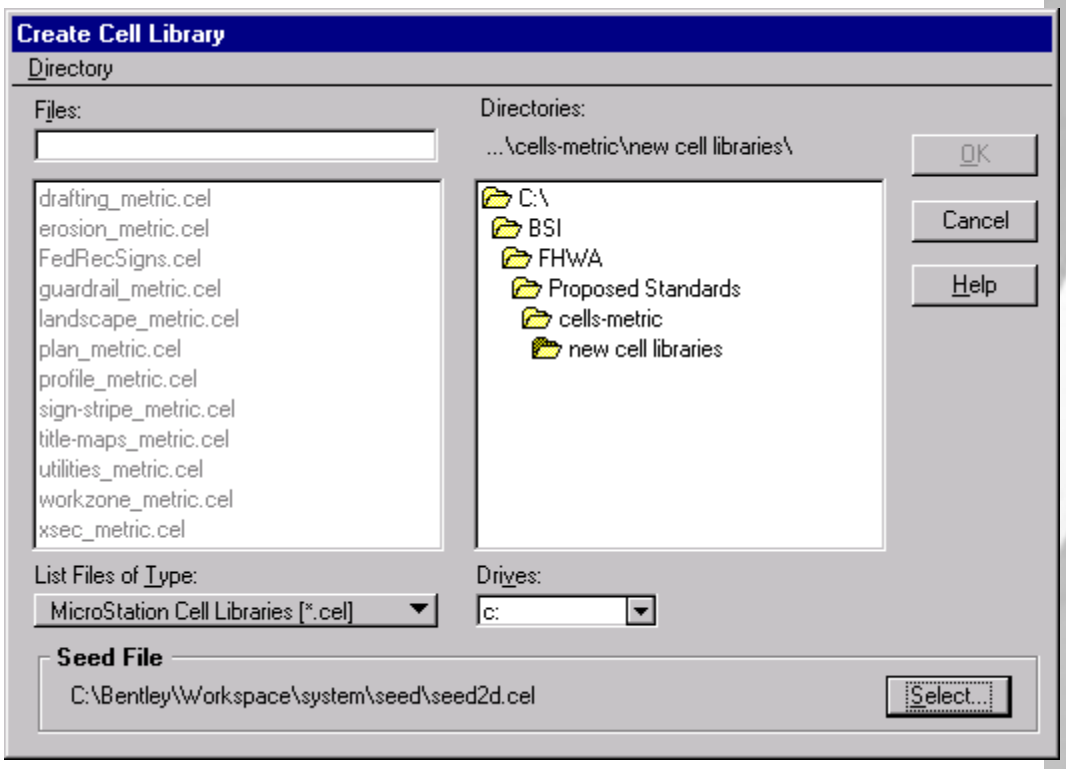

Figure 8-6: Create Cell Library Menu

5. *Once the new name has been given the OK button will activate. Select OK and the new cell library will be attached.*

When selecting a seed file for the new cell library, keep in mind that; you can place 2d cells in a 3d drawing, but you cannot place 3d cells in a 2d drawing. For notes, and temporary project cells, using the default 2d seed file should be sufficient.

Microstation Cell Configuration Variables

There are several configuration variables that will make the selection of cell libraries easier. The list below shows these variables and a brief description.

- Cell library directories — Where MicroStation will look first for cell libraries.
- Cell library list — The list of cell libraries to be shown in the **File** pull down. (Shown below)
- Output cell libraries — Default directory where new cell libraries are placed.

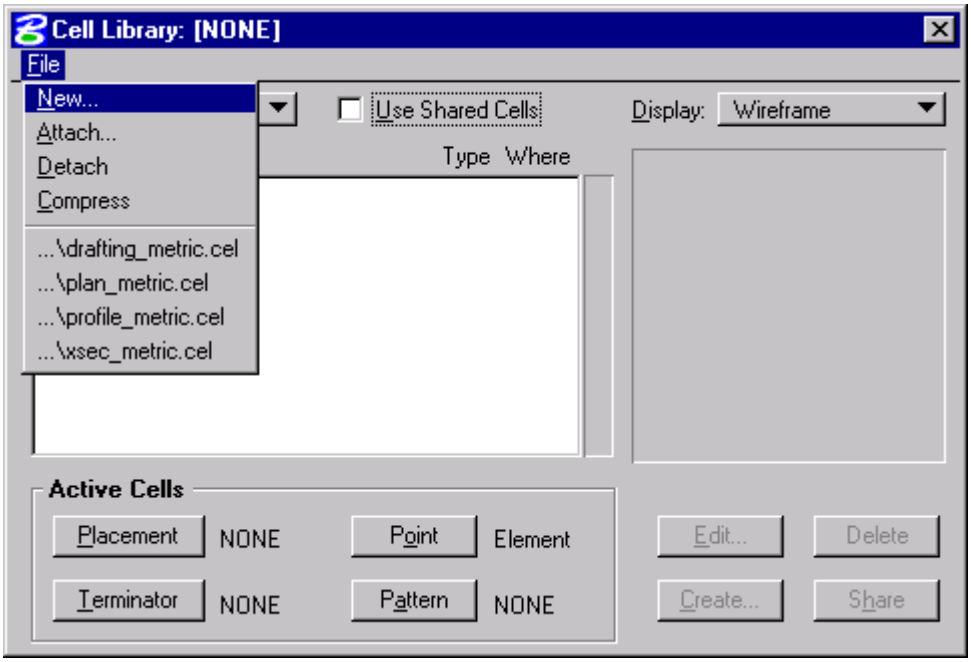

Figure 8-7: New Cell Library Menu

Workflow 3: Modifying Cell Library Configuration Variables

1. ***From the MicroStation pull down menu's, select*** *Workspace>Configuration.*

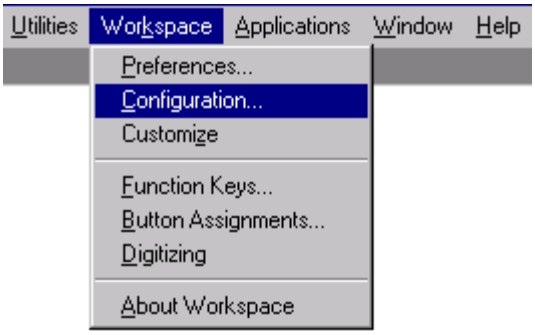

Figure 8-8: Workspace Configuration Menu

2. ***From the workspace configuration palette, select cells from the category list on the left side of the dialog box.***

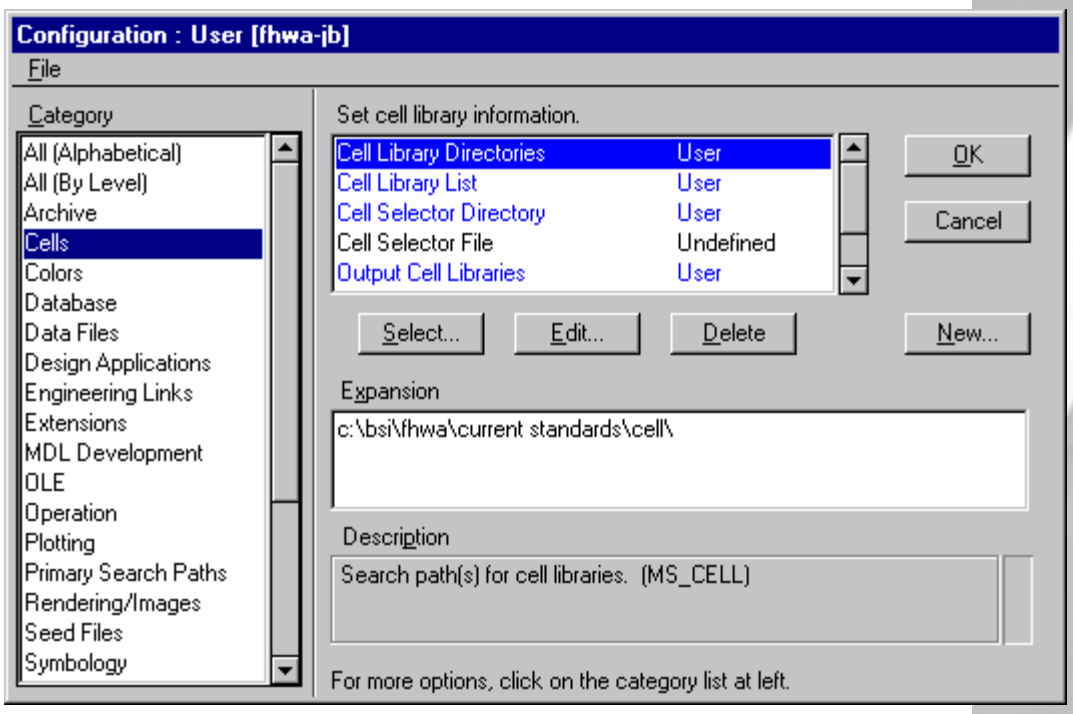

Figure 8-9: Cell Configuration Menu

3. *Highlight the Cell Library Directories, press the Select button, and select the directory where the CFLHD cell libraries are stored. Once the directory is displayed, press the Add button. When finished, select the Done button to return to the Configuration dialog. Repeat this process to set the Output Cell Libraries variable.*

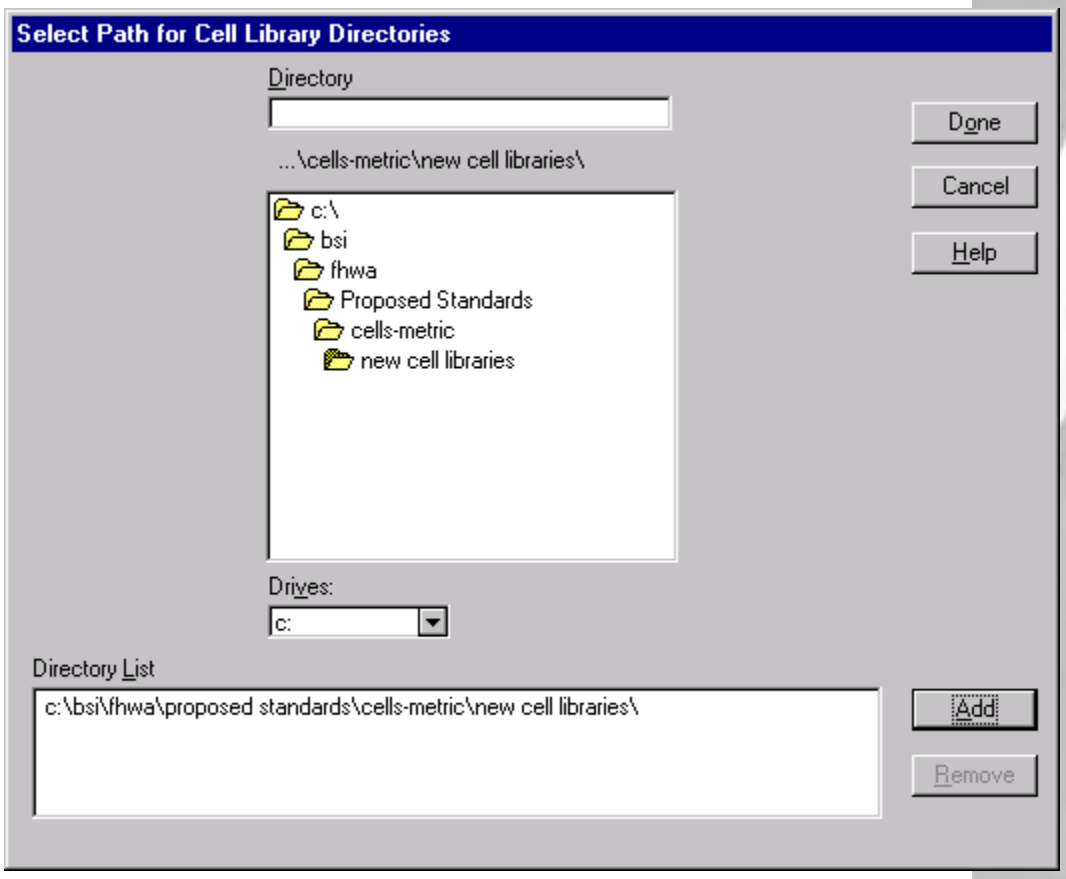

Figure 8-10: Cell Library Directories

4. *Highlight the Cell Library List variable, press the select button, and press the Select button.*
5. *Select the directory where the CFLHD cell libraries are stored. When the directory has been selected, the available cell libraries will be displayed.*

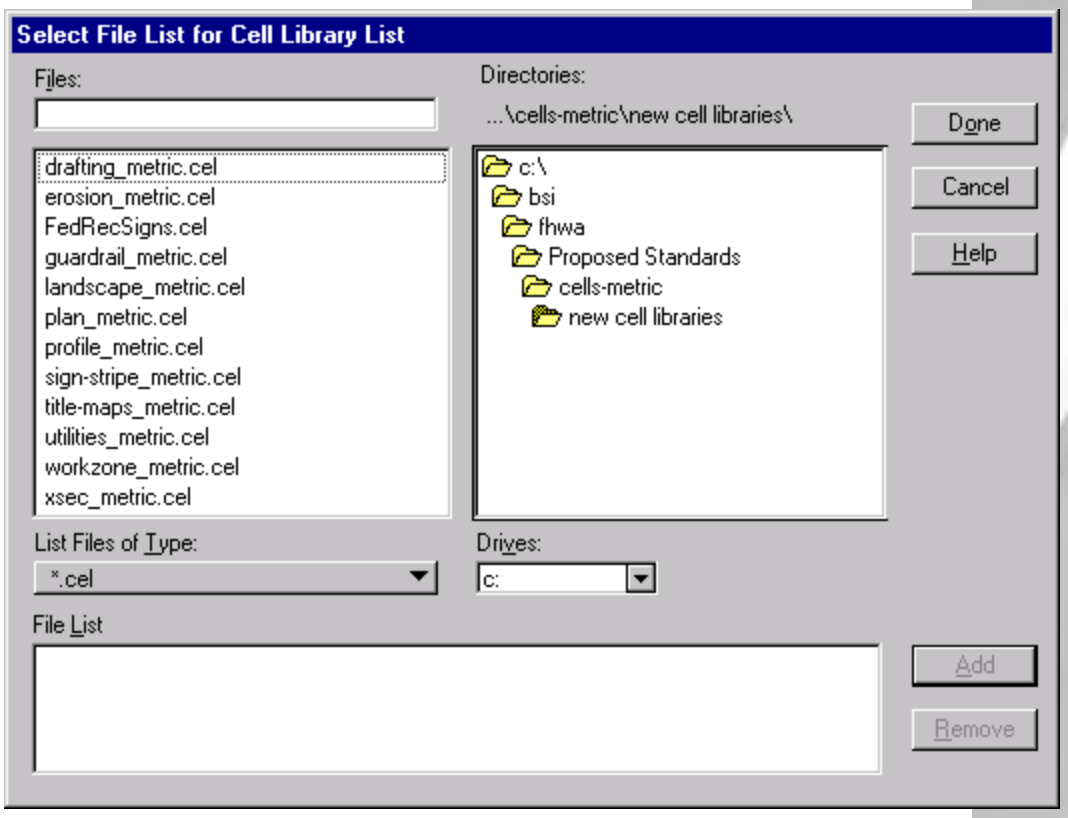

Figure 8-11: Cell Library

6. *Double-clicking the desired cell library, or highlighting the desired cell library and selecting the Add button will place the cell library in the File List box at the bottom of this dialog. Select the cell libraries that the user most commonly uses. When finished select the Done button.*
7. *At the Configuration dialog box, select OK, to accept the changes that were made.*
8. *MicroStation will ask if changes to the configuration file should be saved, Answer by selecting the Yes button.*